جامعة عالية

Aliah University

(A UGC & AICTE approved autonomous Institution under the Dept of MA&ME, GoWB)
IIA/27, New Town, Rajarhat, Kolkata – 700 160, West Bengal
Web: www.aliah.ac.in

NOTICE INVITING QUOTATION

Ref No **011/AU/REG/NIQ/2026-27** Date 06/10/2026

Sub: Sealed Quotations are invited from the bonafide and resourceful Contractors/Service Providers/Agents for Supply of (a) 8051 Microcontroller Trainer with 16x2 LCD Display, ASCII keyboard, On Board Assembler and Disassembler, Serial To USB Cable & Communication Package. (b) Power Supply (5V, 1.5A, +/-12V, 100mA) for 8051 Microcontroller Trainer (separate). (c) IoT-Embedded System Base Board with ARDUINO (Inclusive of WIFI & Bluetooth). (d) ARDUINO -Embedded System Project Board. (e) Stepper Motor Interface with one MOTOR compatible with ALS-SDA-85MEL 8085 Microprocessor Trainer Kit for Department of ECE, Aliah University, New Town Campus.

Aliah University, Kolkata a Premier Educational Institute under the Dept of MA&ME, GoWB, invites **Sealed Tenders are invited from the bonafide and resourceful Contractors/Service Providers/Agents for Supply of (a) 8051 Microcontroller Trainer with 16x2 LCD Display, ASCII keyboard, On Board Assembler and Disassembler, Serial To USB Cable & Communication Package. (b) Power Supply (5V, 1.5A, +/-12V, 100mA) for 8051 Microcontroller Trainer (separate). (c) IoT-Embedded System Base Board with ARDUINO (Inclusive of WIFI & Bluetooth). (d) ARDUINO -Embedded System Project Board. (e) Stepper Motor Interface with one MOTOR compatible with ALS-SDA-85MEL 8085 Microprocessor Trainer Kit for Department of ECE, Aliah University, New Town Campus.** The tentative quantity of the required items along with technical specification of each items are mentioned at Annexure (A) separately. Aliah University is looking for interested bidders who have experience in supplying of mentioned (Annexure A) type of items. NIT document will be downloaded from Website of Aliah University, http://www.aliah.ac.in. Tender must be submitted on or before **29/10/2026 at 03 P.M** at the Office of the Registrar, Aliah University, IIA/27, New Town, Kolkata- 700160, West Bengal, India by Speed-post/registered Post/by hand. Incomplete applications or applications received after the last date of submission will not be considered. **The sealed envelope must be with super scribing the Name, e-mail, Contact No. of Quotationer, NIQ Reference Number and Purpose of NIQ.** Interested bidders are requested to provide **their Quotes following the format in Annexure- II i.e. Technical Documents (A) and Compliance Sheet (B)** in their official letter heads along with signed **Price Bid (Annexure– III).** They must read and accept Terms and **Conditions and scope of work** of this NIQ as per **Annexure- I**. For any information in this regard **please visit Department of Electronics and Communication Engineering, Aliah University, New Town Campus.** Information may also seek from the following e-mails to registrar@aliah.ac.in; storeandpurchase@aliah.ac.in and the emails will be forwarded to the respective Department/Section.

Sl.	Schedule	Date & Time
1	Date of uploading of NIQ (Publishing Date) at Aliah University Website	**06/10/2026 at 03 P.M**
2	Bid submission start date	**07/10/2026 at 12 P.M**
3	Bid Submission closing	**29/10/2026 at 03 P.M (Strictly)**
4	Techno Commercial Bid opening date O/o The **Registrar, IIA/27, New Town, Rajarhat, Kolkata – 700 160.**	**30/10/2026 at 02 P.M (The Bid Opening date and time is tentative and could be open on availability of Concerned Committee Members)**

Sd/-
Registrar (Officiating)
Aliah University

ANNEXURE I: GENERAL TERMS & CONDITIONS

1. **The material must be supplied** within 15 days of issuing work order to the Department of Electronics and Communication Engineering, Aliah University, New Town Campus.
2. The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Size and weights of packing case shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
3. The Quotationer should bear all the transportation & insurance **risk** till the on door delivery point. The insurance shall be in an amount equal to 100 % of the value of the Goods from "Warehouse to final destination" on "All Risks" valid for a period not less than 1 month after installation and commissioning and issue of acceptance certificate by the Aliah University. Should any loss or damage occur, the Supplier shall – (a) Initiate and pursue claim till settlement, and (b) Promptly make arrangements for repair and/or replacement of any damaged item/s irrespective of settlement of claim by the underwriters. Selected bidder shall take all possible care for Govt. Property & of any damages due to negligence of his workers; the bidder/Agency shall be responsible for all such damages & repair the same at his own cost.
4. Aliah University may grant an extension of time limit set for the completion of the work in case the timely completion of the work is delayed by force majeure beyond the contractor's control, subject Force majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.), acts of states, the direct and indirect consequences of wars (declared or un declared), hostilities, national emergencies, civil commotions, epidemic/pandemic and strikes (only those which exceed a duration of ten continuous days) at successful Bidders factory.
5. **The rates** so quoted must be inclusive of GST, Central Excise, customs Duty if any, packing freight to destination, Insurances and levies and necessary installation and fixing at designated places at Aliah University and all charges i.e. cost of Equipment and other incidental charges for supplying at destination level and delivery charges up to the point of delivery at proper destination level and as per instruction in the work/ supply order. No extra charges will be entertained. Prices can be quoted in Indian Currency only (₹).No extra payment will be made for carrying of materials involving head load/ trolley etc.
6. Supply of Items will be made in conformity with the specification & time as mentioned in the work order as decided by the authority. **No deviation in specification** will be accepted. After delivery of the materials to the respective points by selected bidder (s), authority reserves the right to collect the samples of supply the materials at random basis and send those materials for testing to ensure the quality of products etc. If it is found that materials are not according to the specification, the authority has every right to cancel the total lot or otherwise forfeit the security money, blacklisting the respective Manufacturer / Supplier and terminate the contract.
7. If any part of the service in respect of the work assigned and undertaken by you not rendered/delivered in time, Aliah University shall be entitled to levy and recover liquidated damages/ penalty at 1% per week or part thereof the delay/ default, subject to 5% maximum, on the payment due to the agency/contractor for the particular stage. Any delay beyond scheduled dates may attract higher penalty to be decided by the Aliah University
8. **The bidder will be selected on items rate only. The bidder must quote in all items otherwise their bids will be rejected.**
9. All disputes are subject to exclusive jurisdiction of competent Court and Forum in Kolkata, India only.
10. Any dispute arising out of this contract shall be referred to the Registrar, Aliah University, and if either of the parties hereto is dissatisfied with the decision, the dispute shall be referred to the decision of an Arbitrator, who should be acceptable to both the parties, to be appointed by the Vice-Chancellor of the University. The decision of such Arbitrator shall be final and binding on both the parties.

11. **This is a Techno-Commercial bid. Partial Tenders are not allowed for this Tender i.e. bidder may quote all item.**

12. Payment Condition:-The prices shall be inclusive of all taxes & levies including GST and other statutory duties as applicable. Rate of taxes should be indicated separately in the Price Bid. Contract Price specified in Price Bid should be based on the taxes & duties and charges prevailing at the date one day prior to the last date of Bid submission. Statutory deduction, wherever applicable, shall be made from invoice as per government rules. Necessary certificate will be issued for such deductions. Bidder

submitting a bid shall produce valid statutory documents / certificates with respect to GST, Income Tax, ROC, Prof. Tax, Trade License, etc. All such documents / certificates shall remain valid on the last date of Tender submission. GST component of the invoice of the bidder may be kept on hold in case there is any mismatch / irregularity in GST return filling on the part of the bidder. 100% payment will be released duly certified by the concern authority and immediately on receipt of payment from the Govt. Department (within 60 days from the submission of bills). Advance payment not allowed. Hence, following information must be clearly written in the Price Bid for RTGS / FUND TRANSFER:**:**

A. Name of the Firm with complete postal address
B. Name of the Bank with Branch where the Account exist
C. IFSC CODE
D. ACCOUNT No
E. PAN No

16. The Quotations are liable to be rejected if the fore going conditions are not complied with. The bid should be complete in all respects and duly signed wherever required. Incomplete and unsigned offer will not be accepted.
17. The products asked for should be of very high standard and of reputed brand and preferably with **B.I.S/I.S.I** code.
18. The rates quoted will remain valid for one year from the date of acceptance of this award of contract. However, the contract can be extended for a further period of one year at the discretion of this University on the same rates and the same terms and conditions.
19. The Honorable Vice Chancellor, Aliah University reserves the right to accept in part or in full any quotation or reject any quotation without assigning any reason or to cancel the tendering process and reject all tenders at any time prior to award of contract, without incurring any liability, whatsoever to the affected quotationer or quotationers.
20. All bidders are required to visit the installed machines on site before submitting the proposal. Please visit HoD Room (ECE), Aliah University, New Town Campus, IIA/27, New Town, Kolkata- 700160
21. **Inspection and Quality Control tests** before evaluation, prior to shipment of Goods and at the time of final acceptance are as follows: Inspection of Goods including functional testing, etc., as per the standards may be done at factory site of the Supplier before award of the Purchase Contract, by the Aliah University; Provided that the Aliah University may, at its sole discretion, waive inspection of goods having regard to the value of the order and/or the nature of the goods and/or any other such basis as may be decided at the sole discretion of the Aliah University meriting waiver of such inspection of goods.
22. If there is a tie during financial bid preference shall be given to oldest registered organization.

Annexure II : Technical Bid Application Format
(Please attach all relevant documents)

To, The Registrar
Aliah University
IIA/27, New Town,
Kolkata-700 160

Sub: Application for Supply of (a) 8051 Microcontroller Trainer with 16x2 LCD Display, ASCII keyboard, On Board Assembler and Disassembler, Serial To USB Cable & Communication Package. (b) **Power Supply (5V, 1.5A, +/-12V, 100mA) for 8051 Microcontroller Trainer (separate). (c) IoT-Embedded System Base Board with ARDUINO (Inclusive of WIFI & Bluetooth). (d) ARDUINO -Embedded System Project Board. (e) Stepper Motor Interface with one MOTOR compatible with ALS-SDA-85MEL 8085 Microprocessor Trainer Kit for Department of ECE, Aliah University, New Town Campus.**

Ref: - _____N.I.Q. No ……dated …….

Sir,

1. ABOUT THE ORGANIZATION		
1.1	Name of the Organization	
1.2	Name of Authorized Person	
1.3	Registered Office Address with telephone no. & email address	
1.4	Authorized Service Station Name, address, contact person name, phone number, e-mail	

2. TECHNICAL DOCUMENTS		
2.1	Company Registration No./Trade License No./Partnership Deed No. (Please attach documentary evidence)	
2.2	PAN Registration No (Please attach documentary evidence with this NIQ Document)	
2.3	GST Registration No (Please attach documentary evidence with this NIQ Document)	
2.4	Work Experience in Similar Job (Preferable) (Please attach documentary evidence with this NIQ Document)	

Technical Compliance Sheet

Para of Tender Enquiry Specification **For any enquiry/ clarification /measurement bidders are requested to visit/Contact the site Department of Electronics and Communication Engineering, Aliah University New Town Campus, IIA/27, New Town, Kolkata –700160**	Specification of Items/Components Offered	Compliance to Tender specification whether **yes or no**	In case of noncompliance Deviation from Tender Specification to be indicated in unambiguous term.
1	**2**	**3**	**4**
8051 Microcontroller Trainer with 16x2 LCD Display, ASCII keyboard, On Board Assembler and Disassembler, Serial To USB Cable & Communication Package.	**8051 trainer operating at 11.0592 MHz, EPROM 32K bytes with Monitor, RAM 32 K Data RAM RAM2 32 K Program/Dat, 48 I/O lines using two 8255, 0ne RS232 compatible interface, Three 16 bit counter /timer using 8253, External PC-AT Keyboard, Alphanumeric LCD module (2 Lines x 16 characters), All bus signals are terminated in FRC connectors. On chip port lines P1.0 to p1.7 TO, T1, INT1, INTO are also terminated. 32KB of powerful user friendly monitor. The ASCII keyboard allows users to directly assemble / disassemble mnemonics /instructions for 8051 / 31 using the alphanumeric LCD display. Elegant ABS Plastic BOX On Board D Type Power Connector, Provision of Jumper For setting Different Configuration Supplied with an external 8255 port card interface, a 26-way flat ribbon Cable and a USB-to-RS232 serial converter cable**		
Power Supply (5V, 1.5A, +/-12V, 100mA) for 8051 Microcontroller Trainer (separate).	**Separate Power Supply (5V, 1.5A, +/-12V, 100mA) compatible with 8085 Microprocessor Trainer Kit**		
IoT-Embedded System Base Board with ARDUINO (Inclusive of WIFI & Bluetooth).	**Board is driven using either Raspberry Pi 3 B+ or Arduino UNO R3 controller Facilitates MQTT or HTTP application protocol connection to various IoT cloud platforms such as ThingSpeak, AWS IoT, Microsoft Azure, IBM Bluemix, etc. Can be**		

	connected to a Private Cloud including Xtrans Cloud On board voltage regulator for generating 3.3V from +5V input through power adapter On board Wi-Fi connectivity through ESP8266 for Arduino and internal Wi-Fi connectivity for Raspberry Pi ON BOARD interfaces By ALS On board digital and analog sensors like Temperature & Humidity, Gas sensor, Light sensor, Ultrasonic distance sensor and Soil moisture sensor On board ADC MCP3008 for Raspberry Pi to connect analog sensors and internal ADC for Arduino On board 16x2 character LCD On board 4x4 keypad matrixes On board 32.768 kHz quartz crystal RTC DS1307 powered by coin cell battery of 3V 4 LEDs and 4 Switches 2-digit 7 segment display On board stepper motor driver to drive 5V stepper motor One Buzzer Connector slot for external Bluetooth module for Arduino Provided extra connectors for connecting external analog and digital sensors I2C, SPI communication protocols On board UART connector UART Software serial communication Several outputs of the on-board controller can be accomplished through events from cloud such as turning on LED's or sending a test message etc. Outputs can be programmed to be event or threshold driven. Performance of IoT experiments and design / implementation of student projects possible including provision to write their own programs. possibility of off line data logging and auto upload. once internet is available. possibility of sensor based fault detection and alarm Elegant ABS Plastic BOX		
ARDUINO -Embedded System Project Board.	**Facilitates MQTT or HTTP application protocol connection to various IOT cloud platforms such as thingspeak , AWS IoT, Microsoft Azure And IBM Blue mix. Voltage regulator for generating 3.3V from +5V input through adaptor. LED is provided for power on indication. ON BOARD ALS standard NIFC interfaces On board sensors: DHT 22 Temperature & Humidity Gas sensor LDR sensor Provision for Interface circuit for SSD1306 I2C OLED (128x64 pixels). Provision for 16x2 alphanumeric display (LCD) with back lighting external - Optional Interface circuit for Buzzer. Servo motor interface Two nos. of general purpose LEDs. Two nos. of general purpose push button switches. One SPDT 5V coil relays to drive external devices. All**		

	Programmable I/o lines connected to berg pins. Power supply adapter 5V DC,2A. 5 pin 3.3V supply provided for external use. 5 pin 5V supply provided for external use. 5 pin GND provided for external use. possibility of off line data logging and auto upload. once internet is available. possibility of sensor based fault detection and alarm Elegant Pinewooden Box		
Stepper Motor Interface with one MOTOR compatible with ALS-SDA-85MEL 8085 Microprocessor Trainer Kit	**Stepper Motor Interface with one MOTOR compatible with ALS-SDA-85MEL 8085 Microprocessor Trainer Kit**		

ANNEXURE III PRICE BID

Sl	**Item Description** (Specification as per Compliance Sheet)	**QTY and UNIT in Nos**	**Per UNIT Rate**	**Total Rate (Cl 3 X Cl 4)**	**GST in Amount and in % On Cl 5**	**Total Amount With Taxes Altogether (Cl 5 + Cl 6)**
1	**2**	**3**	**4**	**5**	**6**	**7**
1	**8051 Microcontroller Trainer with 16x2 LCD Display, ASCII keyboard, On Board Assembler and Disassembler, Serial To USB Cable & Communication Package.**	2				
2	**Power Supply (5V, 1.5A, +/-12V, 100mA) for 8051 Microcontroller Trainer (separate).**	2				
3	**IoT-Embedded System Base Board with ARDUINO (Inclusive of WIFI & Bluetooth).**	1				
4	**ARDUINO -Embedded System Project Board.**	5				
5	**Stepper Motor Interface with one MOTOR compatible with ALS-SDA-85MEL 8085 Microprocessor Trainer Kit**	1				
N.B: Amount of quantities may vary						
Total Quoted Amount in Numeric						
Total Quoted Amount in Alphabet						

DECLARATION

I, Sri/Smt. ..... The Managing Director/Proprietor (etc.) of the Firm.,..... (Name of the firm) At (address)..... do hereby solemnly affirm and declare as follows:

1. That I have not ever been convicted of any offence making myself liable to be disqualified to provide any goods/services/work to any Educational Institutions/Govt. or Govt. undertaking Organization /Institution in the State of West Bengal or other State or States.
2. That no case is pending against me or against my firm in any criminal court of law or blacklisted/debarred/banned to provide similar items to the Educational Institutions / Govt. or Govt. undertaking Organization / Institution in the State of West Bengal or other State or States (If any case is pending, state the details).
3. That, I also declare that if any information subsequently found incorrect or false will it automatically render the Tender submitted by me cancelled and make me liable for penal/legal action as per law of the country.
4. That I do further affirm that the statements made by me in this Tender are true to the best of my knowledge and belief and all the documents attached are genuine & correct.

5. I/We agree to supply the above goods/equipment/products in accordance with the technical specifications for a total contract price of Rs..... (Amount in figures) (Rupees .....amount in words) within the period specified in the invitation for Tender. We confirm that the normal commercial warranty/guarantee of mentioned in this Tender shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the invitation letter. We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery. Certify that all above information are correct to the best of my/our information, knowledge and belief.

Signature of the Bidder **Date** _____
Name_____
Designation_____
Seal

Ref. No: 011/AU/REG/NIQ/2026-27 **Dated:** 06/10/2026

Copy to:

1. **HoD,** Department of Electronics and Communication Engineering, Aliah University, New Town Campus.
2. **Notice Board at Aliah University**
3. **Website: www.aliah.ac.in**

Sd/-
Registrar (Officiating)
Aliah University